

GENERAL NOTES

1. DRAWINGS FOR THIS WORK ARE DIAGRAMATIC, INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK, BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS CONDUIT FITTINGS, ACCESS PANELS, CABINET SIZES, SLEEVES, PULL BOXES, BACKBOXES, AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, OTHER SECTIONS, AND FOR PROPER INSTALLATION OF THE WORK.

2. ALL TELECOMMUNICATIONS WORK SHALL CONFORM TO ALL APPLICABLE NATIONAL, STATE AND LOCAL BUILDING CODES AND SHALL BE IN COMPLIANCE WITH BICSI STANDARDS.

3. DO NOT SCALE ANY DRAWINGS. DIMENSIONS TAKEN FROM CENTERLINE OF DEVICE OR GANG BOX SHALL BE FOLLOWED. TELECOMMUNICATIONS DEVICES ARE SHOWN FOR LOCATION AND TYPE ONLY.

4. INCLUDE SUCH ITEMS AS REQUIRED FOR A COMPLETELY OPERATIONAL AND FULLY FUNCTIONAL SYSTEM, WHETHER OR NOT SPECIFICALLY INDICATED.

5. INSTALL CABLES IN ACCORDANCE WITH THE N.E.C., N.F.P.A. AND DIVISION 16 OF THE SPECIFICATIONS.

6. ALL WALL OUTLETS, COVER PLATES, DEVICES, ETC. SHALL BE FURNISHED, INSTALLED AND LABELED BY THE TELECOMMUNICATIONS CONTRACTOR AS REQUIRED.

7. ALL DATA/TELECOM OUTLETS SHALL HAVE A MINIMUM 1" CONDUIT STUBBED OUT AT LEAST 6" ABOVE CEILING HEIGHT, RUN CONDUIT TO ACCESSIBLE CEILING SPACE. IF ACCESSIBLE SPACE DOES NOT OCCUR BETWEEN LOCATION AND TELECOM ROOM, CONDUIT WILL STUB INTO TELECOM ROOM.

8. SHOULD JOB CONDITIONS REQUIRE RELOCATION OF PLANNED TELEPHONE OR DATA OUTLETS, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR APPROVAL OF ALTERNATE LOCATION PRIOR TO THE START OF ANY WORK.

9. CONTRACTOR TO COORDINATE FINAL LOCATION FOR OWNER EQUIPMENT AS LISTED. CONTRACTOR TO CONSULT WITH OWNER FOR FINAL EQUIPMENT CONNECTIONS AND HOOK-UPS.

10. ALL ELECTRIC WORK AND CONSTRUCTION WORK PERFORMED TO FACILITATE THE TELEPHONE AND DATA SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE ANSI/TIA/EIA 569 STANDARD AND N.E.C. REQUIREMENTS FOR INSTALLATION OF ANY REQUIRED CONDUIT.

11. COORDINATE WALL COMMUNICATION AND DATA OUTLET LOCATIONS WITH POWER OUTLETS AND FURNITURE TO BE INSTALLED ON WALL. COORDINATE SYSTEMS FURNITURE OUTLETS WITH COUNTY FURNITURE INSTALLER.

12. CABLE JACKETING SHALL BE A DIFFERENT COLOR FOR DATA, VOICE AND FIBER OPTIC CABLE. THIS COLOR SCHEME SHALL BE CONSISTENT THROUGHOUT THE INSTALLATION. REFER TO RACK DETAILS AND JACK FACEPLATE DETAIL FOR COLOR REQUIREMENTS.

13. ALL HORIZONTAL DATA/TELECOM CABLING SHALL BE TESTED TO CATEGORY 6 PERFORMANCE SPECIFICATIONS AS DEFINED IN ANSI/TIA/EIA 568-B.2. TEST RESULTS TO BE SUBMITTED FOR ARCHITECTS REVIEW.

14. COMPLY WITH TIA/EIA-606A LABELING STANDARDS BY CLEARLY LABELING ALL COMMUNICATIONS OUTLETS, WIRING AND CROSS CONNECTION POINTS.

15. FIRE SEAL AND LABEL ALL PENETRATIONS OF FIRE RATED ASSEMBLIES AS PER TIA/EIA 569-A ANNEX "A" TO MAINTAIN FIRE RATING AND U.L. RATING.

16. WHERE A PANELBOARD (ELECTRICAL, POWER PANELS) IS LOCATED IN THE SAME ROOM OR SPACE AS THE TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) THAT PANELBOARD'S ALTERNATING CURRENT EQUIPMENT GROUND (ACEG) BUS (WHEN EQUIPPED) SHALL BE BONDED TO THE TMGB BY THE ELECTRICAL CONTRACTOR.

17. THE TMGB SHALL BE AS CLOSE TO THE PANELBOARD AS PRATICAL AND SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR TO MAINTAIN CLEARANCES REQUIRED BY APPLICABLE ELECTRICAL CODES.

18. ALL CONNECTIONS OF CONDUCTORS FOR BONDING TELECOMMUNICATIONS EQUIPMENT SHALL UTILIZE EXOTHERMIC WELDING, LISTED COMPRESSION LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTIONS. TWO-HOLE LUGS ARE PREFERRED.

19. ALL METALLIC PATHWAYS FOR TELECOMMUNICATIONS CABLING LOCATED WITHIN THE SAME ROOM OR SPACE AS THE TMGB SHALL BE BONDED TO THE TMGB. HOWEVER, FOR METALLIC PATHWAYS OR CONDUITS, THE TMGB SHALL BE BONDED TO THE TMGB. IF BONDED TO THE GROUNDING CONDUCTOR, NO ADDITIONAL BOND TO THE TMGB IS REQUIRED.

20. THE TMGB AND TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) SHALL BE INSULATED FROM ITS SUPPORT. A MINIMUM OF 50MM (2 IN.) SEPARATION FROM THE WALL IS RECOMMENDED FOR ACCESS TO THE REAR OF THE BUSBAR.

21. THE TMGB SHALL BE LOCATED AS SHOWN ON DRAWINGS, AND SUCH THAT IT IS ACCESSIBLE TO TELECOMMUNICATIONS PERSONNEL. A PRACTICAL LOCATION FOR THE TMGB IS TO THE SIDE OF THE PANELBOARD WHERE PROVIDED. THE MOUNTING HEIGHT OF THE TMGB SHOULD BE ADJUSTED TO ACCOMMODATE OVERHEAD OR UNDERLOOR CABLE ROUTING.

22. REFER TO ARCHITECTURAL SHEET AXXX FOR MOUNTING HEIGHTS FOR ALL OUTLETS AT COUNTERS, MILLWORK, AND TELEVISION HEIGHT REQUIREMENTS.

23. REFER TO DIVISION 16 SPECIFICATION SECTION 16740 FOR COLOR AND MATERIALS TO BE USED FOR FACEPLATES UNLESS SPECIFICALLY INDICATED ON THESE DRAWINGS.












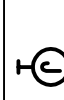
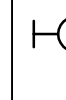

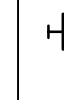

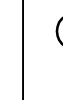
24. REFER TO "ES" SERIES DRAWINGS FOR CABLE TRAY LAYOUT.

25. ALL COMMUNICATIONS OUTLETS SHALL HAVE A MINIMUM OF 1" CONDUIT TO ACCESSIBLE CEILING SPACE OR CABLE TRAY UNLESS NOTED OTHERWISE.

26. ALL CONDUIT RUNS EXCEEDING 15' SHALL BE EQUIPPED WITH A PULL-STRING WITH MINIMUM TEST RATING OF 200LB.

27. NO ONE CONDUIT SEGMENT SHALL BE MORE THAN 100' WITHOUT THE INSERTION OF A PULL BOX.

28. AT NO TIME SHALL A CONDUIT RUN EXCEED (2) 90° BENDS WITHOUT THE INSERTION OF A PULL BOX.

29. RISER CONDUIT SHOWN FOR REFERENCE ONLY. ALL RISER CONDUIT BY ELECTRICAL CONTRACTOR.
- TELECOMMUNICATIONS SYMBOLS LEGEND
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TELEPHONE OUTLET WALL MOUNTED
REFER TO DETAILS ON SHEET ES4-104 | 
TELE/ DATA EQUIPMENT RACK
REFER TO DETAILS ON SHEET ES4-104 |
| 
EMERGENCY RED PHONE. | 
HOMERUN ABOVE GRADE |
| 
ELEVATOR TELEPHONE OUTLET | 
HOMERUN BELOW GRADE |
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STANDARD TELE/ DATA COMBINATION OUTLET – WALL MOUNTED
CABLES IF REQUIRED. REFER TO DETAILS ON SHEET ES4-104 | 
KEY NOTE INDICATOR |
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STANDARD TELE/ DATA COMBINATION OUTLET – FLOOR MOUNTED
CABLES IF REQUIRED | 
CABLE TRAY – 18" WIRE BASKET.
REFER TO DETAILS ON SHEET ES4-105 |
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CEILING MOUNTED WIRELESS DATA OUTLET IN ENCLOSURE
REQUIRES (2) CAT 6 CABLES. | 
DOUBLE GANG JUNCTION BOX |
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WALL/COLUMN MOUNTED FURNITURE FEED MODULE | 
COMBINATION COMMUNICATIONS/POWER POKE THRU FOR SYSTEM FURNITURE |
| 
WALL MOUNTED TELEVISION OUTLET AT 84" A.F.F
84" A.F.F. UNLESS NOTED OTHERWISE | 
COMBINATION COMMUNICATIONS/POWER OUTLET – FLOOR MOUNTED
REQUIRES (3) CAT 6 CABLES # INDICATES DIFFERENT NUMBER OF CABLES IF REQUIRED. |
| 
120V ELECTRICAL CONNECTION REQUIRED | |
- Revisions:

Revision	Date
▲ Bulletin 6	06/04/09

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Drawing Title

TELECOMMUNICATIONS
NOTES AND SYMBOLS

Approved: Project Director

Project Title

V.A. RICHMOND
POLYTRAUMA TRANSITIONAL
REHABILITATION CENTER

Location

HUNTER HOLMES MCGUIRE


Project Number

V101BP 0241
652-307

Drawing Number

ESO-103

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Facilities
Management

 Department of
Veterans Affairs
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